



HOT-DIP GALVANIZED STEEL FOR WHITE GOODS

MAIN PARAMETERS

Rolled product thickness	0.22-4.00 mm
Rolled product width	900-1,820 mm
Rolled product width after slitting	100-850 mm
Coil inner diameter	600 ± 10, 500 ± 10 mm (requested)
Coil weight	5-30 t
Weight of sheet bundles	Up to 10 t
Sheet length	1,500-3,500 mm
Weight of galvanized coating (both sides)	80 to 600 g/m ²
Coating type	With minimum spangle pattern

TOLERANCES FOR DIMENSIONS AND SHAPE OF ROLLED PRODUCTS

Standard for specification	GOST 14918	TU 14-106-438	EN 10346	ASTM A 653M
Standard for product mix, geometrical dimensions and tolerances	GOST 19904 GOST 19903	GOST 19904 GOST 19851	EN 10143	ASTM A 924M

LOW-CARBON IF STEELS FOR COLD WORKING

MECHANICAL PROPERTIES

Rolled product grade	Standard	Yield strength, MPa (N/mm ²)	Ultimate strength, MPa (N/mm ²)	Relative elongation, %, min.	R ₉₀	n ₉₀	Sampling direction with respect to rolling direction
DX51D	EN 10346	–	270–500	22	–	–	Transverse
DX52D		140–300	270–420	26	–	–	
DX53D		140–260	270–380	30	–	–	
DX54D		140–220	260–350	36	≥ 1.6	≥ 0.18	

Yield strength of DX52D grade steel is rated only for skin-passed steel (with "B" and "C" surface finish).

Other specified mechanical properties are available upon request.

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

● DX51D

Thickness, mm	Strip width, mm								
	900	1,000	1,250	1,350	1,440	1,520	1,550	1,620	1,800
0.22–0.30									
0.31–0.39									
0.40–0.41									
0.42–0.49									
0.50–0.70									
0.71–0.90									
0.91–2.00									
2.01–2.99									
3.00–4.00									

● DX52D

Thickness, mm	Strip width, mm								
	900	1,000	1,250	1,350	1,440	1,520	1,550	1,620	1,720
0.30–0.39									
0.40–0.41									
0.42–0.49									
0.50–0.70									
0.70–1.50									
1.51–2.00									
2.01–2.99									
3.00–4.00									

● DX53D, DX54D

Thickness, mm	Strip width, mm					
	900	1,250	1,600	1,650	1,750	1,800
0.45–0.59						
0.60–0.69						
0.70–0.85						
0.71–0.83						
0.86–1.00						
1.01–2.00						

PACKING CHARTS

Chart No. 05

No.	Description
1.2	Polyester packing strap
1.3	Steel baling strap
2	Strapping seal
14	Protective steel box
15	Protective angle for pack corners
16	Standard timber pallet
16.4*	Double pallet for forklift
19	Label (shipping)

* Not visualized.

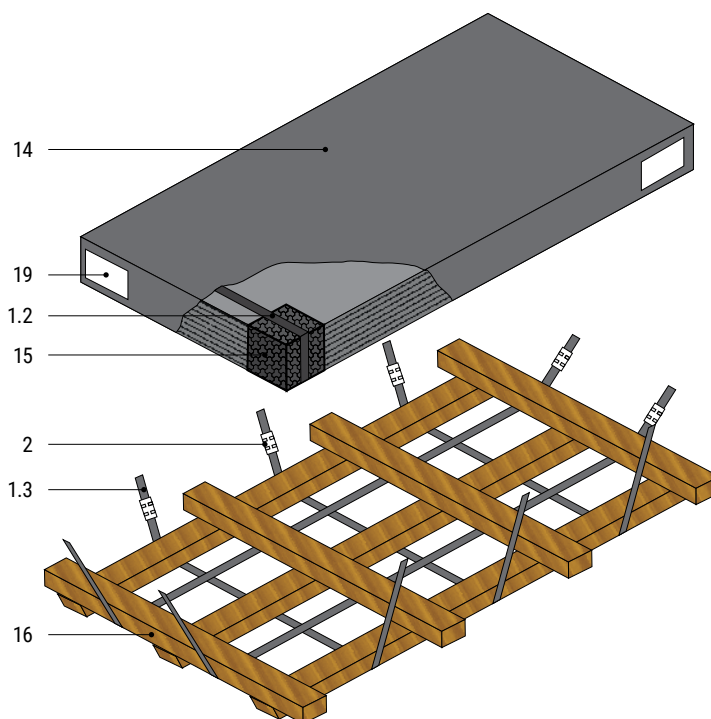


Chart No. 05-1

No.	Description
1.2	Polyester packing strap
1.3	Steel baling strap
2	Strapping seal
5	Multilayer anticorrosive material
10.3	Protective sheet
13	Protective steel angle
15	Protective angle for pack corners
16	Standard timber pallet
16.4*	Double pallet for forklift
19	Label (shipping)

* Not visualized.

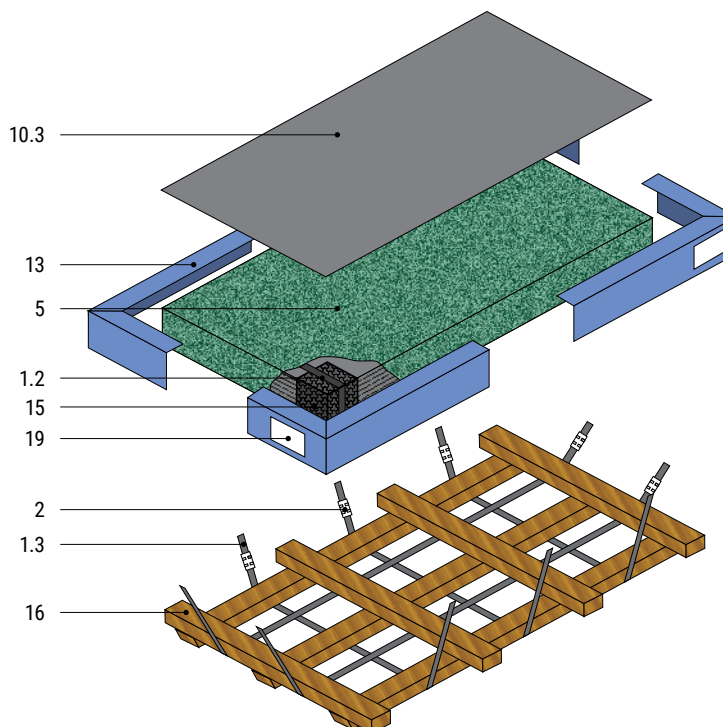


Chart No. 06

No.	Description
1.2	Polyester packing strap
1.3	Steel baling strap
2	Steel strapping seal
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
10.2*	Packing plastic sheet
10.3*	Protective steel sheet
13*	Protective steel angle
14	Protective steel box
15	Protective angle for pack corners
15.1*	L-shaped protective angle for pack ends
16	Standard timber pallet
16.4**	Double pallet for forklift
19	Label (shipping)

* Option instead of the steel box (not visualized).
Interchangeable packing elements shall be selected by the manufacturer.

** Not visualized.

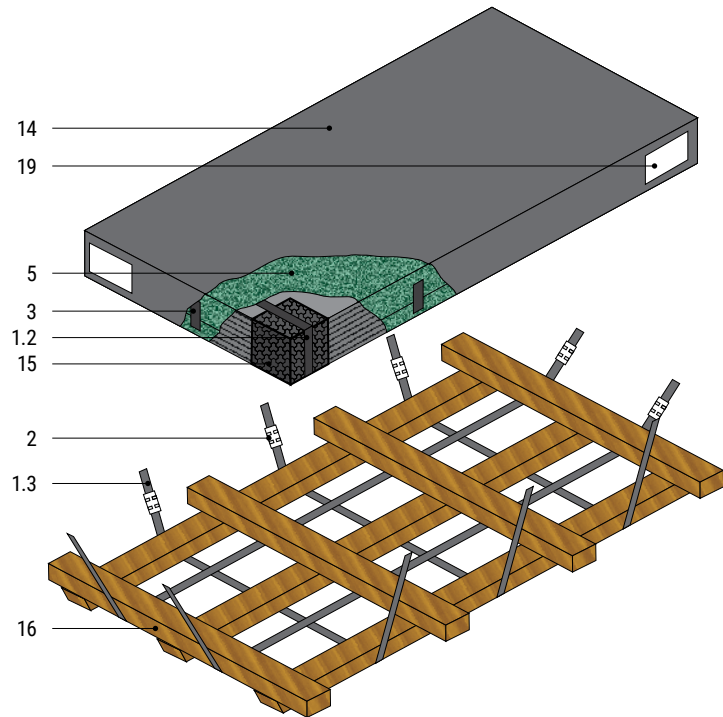


Chart No. 07

No.	Description
1.1	Steel baling strap
1.2	Polyester packing strap
2	Steel strapping seal
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
6	Polyethylene film
10.3	Protective steel sheet
13	Protective steel angle
16.1	International timber pallet
16.4*	Double pallet for forklift
19	Label (shipping)

* Not visualized.

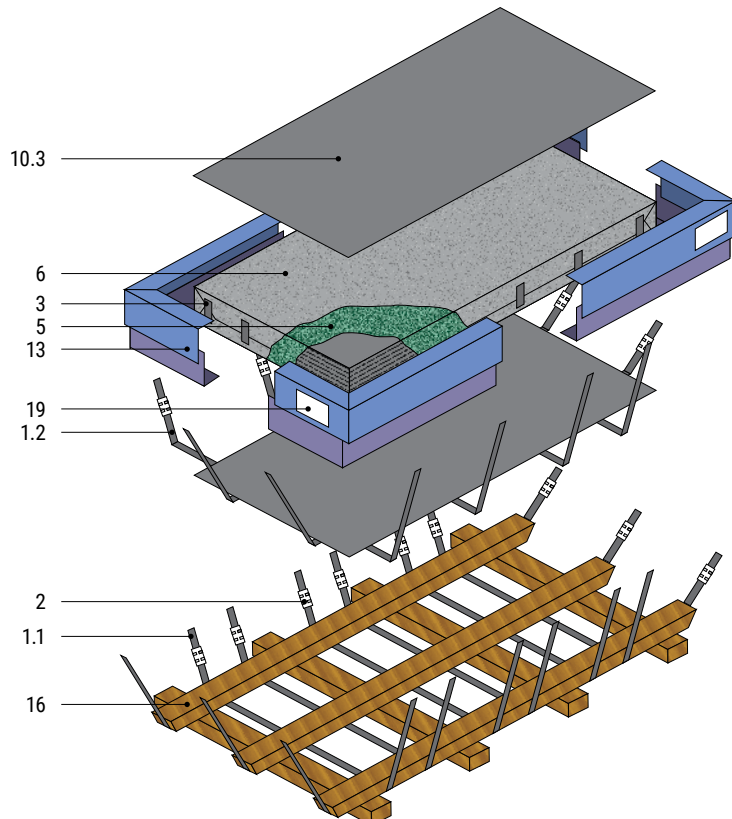


Chart No. 10, No. 10-1

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
6	Polyethylene film
7	Protective cardboard angle
8	Plastic insert
8.1	Plastic shell
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

* For Packing Chart No. 10-1.

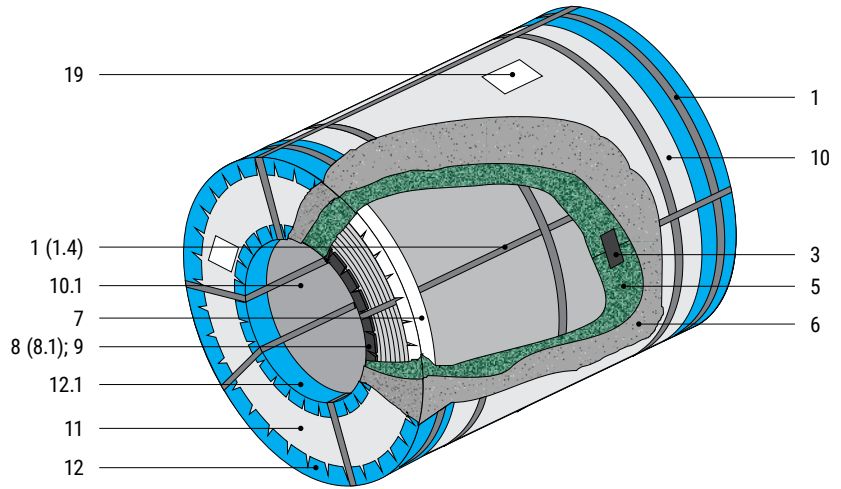


Chart No. 11, No. 11-1

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
3.1	Adhesive tape 100 mm
5	Multilayer anticorrosive material
6	Polyethylene film
7	Protective angle 60 × 60 mm
7.1*	Protective angle 120 × 80 mm
8	Plastic insert
8.1	Plastic shell
9**	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
10.5	Protective sheet for strap bundles
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

* To be installed if steel end covers are used.

** For Packing Chart No. 11-1.

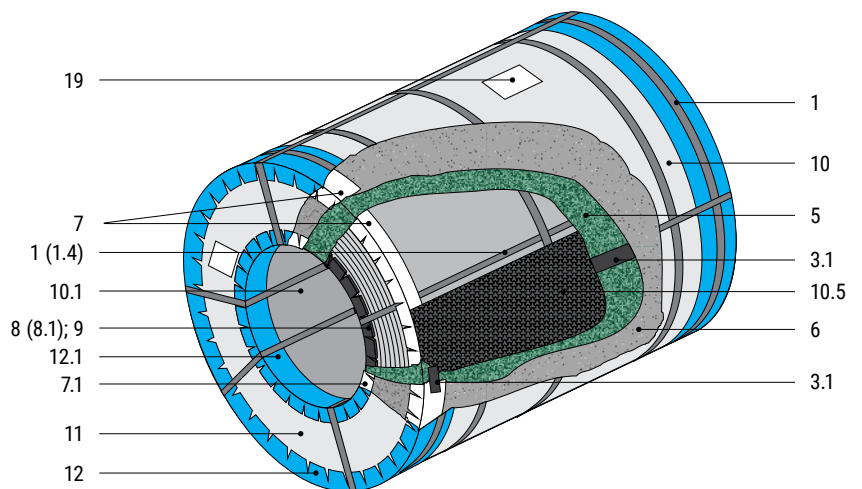


Chart No. 11K, No.11-1K

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
8	Plastic insert
8.1	Plastic shell
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

* For Packing Chart No. 11-1K.

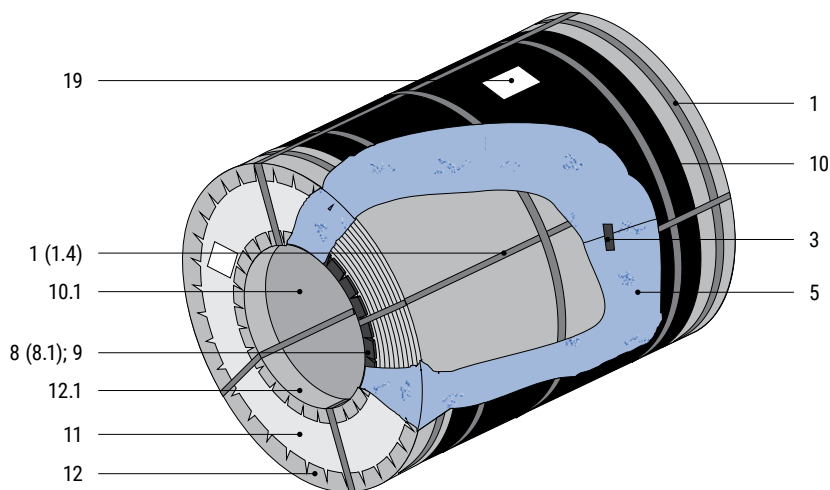


Chart No. 12, No. 12-1

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
3.1	Adhesive tape 100 mm
5	Multilayer anticorrosive material
6	Polyethylene film
7	Protective angle 60 × 60 mm
7.1	Protective angle 120 × 80 mm
8	Plastic insert
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

* For Packing Chart No. 12-1.

